

World Leader • In-Rack • Audio & Video Monitoring

WOHLER VMDA-4

"Confidence Plus" Digital & Analog Audio Monitor - 4 Stereo Channels



January 28, 2004

Features:

- Only One Rack Space High
- Powerful 96dB SPL at 2 feet (0.6m)
- Select from Balanced or Unbalanced AES/EBU digital and Analog Sources
- 4 Balanced AES/EBU Inputs
- 4 Unbalanced AES/EBU Inputs
- 8 Balanced Analog Inputs (4 Stereo)
- 8 Balanced Analog Outputs (4 Stereo)
- 2 Ten-Segment VU Level Meters
- Phase / Polarity Indication
- Front Panel Speaker Muting
- Thorough Magnetic Shielding for Placement next to Video Monitors
- Headphone Jack, Mutes Speakers
- Blowout-Proof Speakers
- Lightweight and Shallow-Depth Chassis
- Internal Universal AC Mains Power Supply
- Also Available, VMDA-1 with 1 Stereo AES/EBU or Analog Input

Introducing the VMDA-4, the latest from our new line of "confidence plus" audio monitors. A very compact & light, digital & analog audio monitor at a very cost effective price. The single-rackspace VMDA-4 offers selectable monitoring of either 4 stereo analog or 4 AES/EBU digital audio sources, with excellent full-range fidelity far exceeding that of competitive units. Two front-firing midrange-tweeter speakers and a compact high-performance woofer are arranged in Wohler Technologies' popular bi-amp design. All Wohler speaker systems are protected against blow-out by limiters. The summed bass feature is important for audible detection of "out of phase" conditions. Electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds.

The unit features 2 ten-segment VU LED bar-graphs level meters. Fast and averaging "phase" LEDs give visual alert of "out of phase" conditions. An analog output of the selected analog or digital stereo source is provided on the rear panel. Individual illuminated push-buttons select and indicate which of the four sources is being monitored. Two or more pairs of the analog inputs may be summed (as pairs) by pressing the desired buttons simultaneously (AES inputs cannot be summed). A separate lighted pushbutton switches between the selected analog or digital source(s). A front-panel mute function is engaged by tapping the Analog/Digital selector button briefly, the button's light blinks while speakers are muted. Muting may also be activated from a switch remoted from the rear panel (optional extra). An auxiliary analog output of the selected analog or digital source is provided on the rear panel.

The VMDA-4 is completely magnetically shielded to allow interference-free operation immediately adjacent to all CRT video monitors. The light weight and shallow depth chassis compared to similar-type units, make it ideal for use in portable and mobile vehicle applications. Built and rigorously tested in the USA, the VMDA-4 is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.



Audio Monitoring

Level Metering

Alarm Systems

Video Monitoring

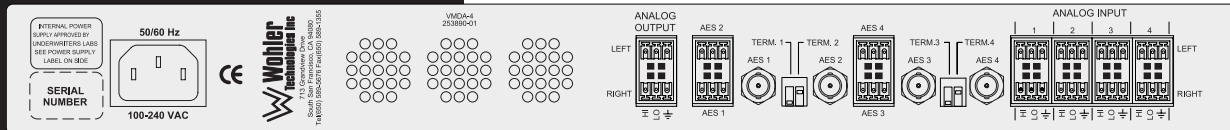
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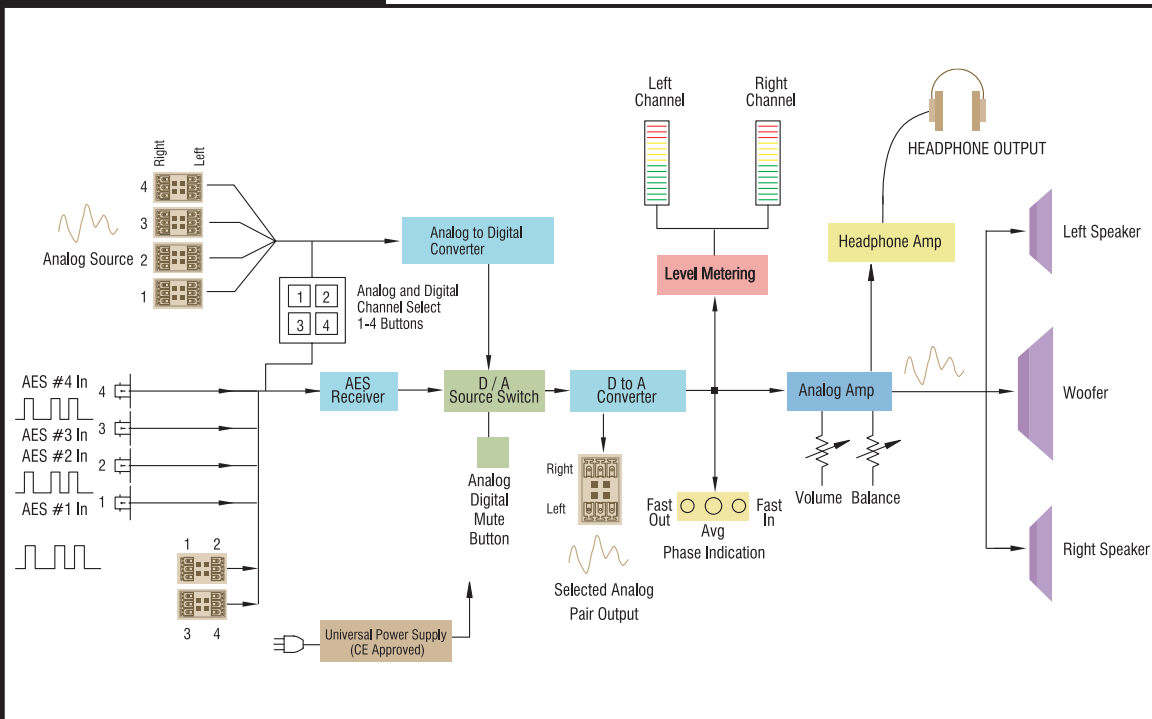
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Rear Panel:



System Diagram:



Specifications:

AES/EBU input(s)	4 Balanced (mini phoenix) or Unbalanced (BNC)
Analog input(s)	8 Balanced (4 Stereo) (mini phoenix)
Analog input impedance	>100 kOhms balanced
AES/EBU input termination	110 Ohms balanced, 75 Ohms unbalanced
AES/EBU input sampling rate	32-48kHz, auto-detecting
Input level for full output (volume full on)	0 dBv analog -20dBfs digital
Hum and noise	better than -70 dB below full output
Acoustic frequency response	80 Hz to 16 kHz (± 6dB)
Peak acoustic output @ 2 feet	96dB SPL
Electrical distortion	<0.3% at any level below limit threshold
Acoustic distortion	Typically <2% at any level below limiting, 100Hz - 15KHz
Magnetic shielding	<1 gauss any adjacent surface
Connectors	balanced: mini-phoenix unbalanced: BNC
Power Consumption	<70W
Dimensions (HxWxD)	1.75 x 19 x 8.5" (44.5 x 483 x 216mm)
Weight	6.8 lbs. (3.1kg)
Power Supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement



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